

FIG. 1A

1 CCGCAGAGATGGTTGAGCTCATGTTCCCGCTGTGTGCTCCTCCTTCTGCCCTTCTCTG  
 1 M V E L M F P L L L L L L L P F L L  
 61 TATATGGCTGCCGCCCAATCAGGAAATGCTGTCCAGTGGGTGTGTACATCAACTGTT  
 18 Y M A A P Q I R K M L S S G V C T S T V  
 121 CAGCTTCCTGGGAAAGTAGTGTGTGTCACAGGAGCTAATACAGGTATCGGGAAGGAGACA  
 38 Q L P G K V V V T G A N T G I G K E T  
 181 GCCAAGAGCTGGCTCAGAGAGAGCTCGAGTATATTAGCTTGCCGGGATGTGGAAGAAG  
 58 A K E L A Q R G A R V Y L A C R D V E K  
 241 GGGGAATTGGTGGCCAAAGAGATCCAGACCAGACAGGGAACCAAGAGGTGTGTGGTGGG  
 78 G E L V A K E I Q T T T G N Q Q V L V R  
 301 AAACCTGGACCTGTCTGATACTAAGTCTATTTCGAGCTTGGGCTAAGGCTTCTTAGCTGAG  
 98 K L D L S D T K S I R A W A K G F L A E  
 361 GAAAGCACCTCCACGTTTGGATCAACAATGCAGGAGTGATGTGTCCGTACTCGAAG  
 118 E K H L H V W I N N A G V M C P Y S K  
 421 ACAGCAGATGGCTTTGAGATGCACATAGGAGTCAACCACCTGGGTCACTTCCCTCCTAACC  
 138 T A D G F E M H I G V N H L G H F L L T  
 481 CATCTGCTGCTAGAGAACTAAAGGAATCAGCCCCATCAAGGATAGTAAATGTGTCTTCC  
 158 H L L L E K L K E S A P S R I V N V S S  
 541 CTCGCACATCACCTGGGAAGGATCCACTTCCATAACCTGCAGGGGAGAAATCTACAAT  
 178 L A H H L G R I H F H N L Q G E K F Y N  
 601 GCAGGCCCTGGCCTACTGTCACAGCAAGCTAGCCAACATCCTCTTCAACCAGGAAGTGGCC  
 198 A G L A Y C H S K L A N I L F T Q E L A  
 661 CGGAGACTAAAGGCTCTGGCGTTACGACGTATTCTGTACACCCCTGGCACAGTCCCAATCT  
 218 R R L K G S G V T T Y S V H P G T V Q S

FIG. 1B

721	GA	AC	TG	GT	TC	GC	CA	CT	CA	T	C	T	T	C	A	T	G	A	T	G	G	T	T	T	C	T	T	T	C	A	T	C																			
238	E	L	V	R	H	S	S	F	M	R	W	M	W	L	F	S	F	I																																	
781	A	A	G	A	C	T	C	C	T	C	A	G	C	G	C	C	A	G	C	T	G	C	A	C	T	T	A	A	C	A	G	A	G	T	C	T	T	G	A	G											
258	K	T	P	Q	Q	G	A	Q	T	R	L	H	C	A	L	T	E	G	L	E																															
841	A	T	T	C	T	A	A	G	T	G	G	A	A	T	C	A	T	T	T	C	A	G	T	G	A	C	T	G	T	C	A	T	G	T	G	C	C	C	A	A	G	C	T	C	G	T					
278	I	L	S	G	N	H	F	S	D	C	H	V	A	W	V	S	A	Q	A	R																															
901	A	A	T	G	A	C	T	A	T	A	G	A	C	T	A	G	C	C	G	G	T	G	T	G	G	A	C	T	G	T	G	A	C	C	T	T	G	T	G	G	C	C	T	C	C	C	A	A	T	A	G
298	N	E	T	I	A	R	R	L	W	D	V	I	V	T	C	W	A	S	Q	*																															
961	A	C	T	A	A	C	A	G	G	C	A	G	T	G	C	C	A	C	C	C	A	A	G	A	A	G	A	C	T	G	C	A	G	C	A	C	T	A	C	A	G	T	A	C	T	T	C	T			
1021	T	G	T	C	A	A	A	A	T	G	A	T	T	C	T	C	T	T	C	A	A	G	G	T	T	T	T	C	A	A	A	A	C	C	T	T	T	A	G	C	A	C	A	A	A	A	C	C	T	T	
1081	C	C	A	G	C	C																																													

Nucleotide and amino acid sequences of prostatic  
specific reductase (PSR).

FIG. 2A

1 M - - - - - A A P Q I R K M  
1 M - - - - - - - - - -  
1 M L L L A A A F L V A F V L L L Y M

22 P G K V V V V T G A N T G I G K E T  
4 T G R R A V V T G G A S G L G A E T  
31 P G A H V V V T G G S S G I G K C I

52 L A C R D V E K G E L V A K E I Q -  
34 V A T R R P L S A E P L V Q E L A -  
61 L V A R N E D K L L Q A K K E I E M

80 K L D L S D T - K S I R A W A K G F  
62 A L D L S D P - A S V E S F A R A W  
91 S V D V S Q D Y N Q V E N V I K Q A

109 N A G V M M C P - Y S K - T A D G F  
88 N A G I M A L P - T R T L A P N G W  
121 C A G M A V S G K F E D L E V S T F

137 L L T H L L L E K L K E S A P S R I  
117 A L A T G L H A A L R D A G S A R I  
151 Y P S R A V I T T M K E R R V G R I

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FIG. 2B

L	S	S	G	V	C	T	S	T	V	Q	L	PSR
-	-	-	-	-	-	-	-	-	-	D	L	Oxidoreductase
V	S	P	L	I	S	P	K	P	L	A	L	fvt1

A	K	E	L	A	Q	R	G	A	R	V	Y	PSR
V	R	A	L	A	A	A	G	A	E	V	T	Oxidoreductase
A	I	E	C	Y	K	Q	G	A	F	I	T	fvt1

-	T	T	T	G	N	Q	Q	V	L	V	R	PSR
-	A	A	G	G	A	G	R	V	T	A	E	Oxidoreductase
H	S	I	N	D	K	Q	V	V	L	C	I	fvt1

L	A	E	E	K	H	L	H	V	W	I	N	PSR
R	G	-	-	-	P	L	D	I	L	V	A	Oxidoreductase
Q	E	K	L	G	P	V	D	M	L	V	N	fvt1

E	M	H	I	G	V	N	H	L	G	H	F	PSR
E	M	Q	L	A	T	N	Y	L	G	H	F	Oxidoreductase
E	R	L	M	S	I	N	Y	L	G	S	V	fvt1

V	N	V	S	S	L	A	H	H	L	G	R	PSR
V	V	V	S	S	G	A	H	L	D	A	P	Oxidoreductase
V	F	V	S	S	Q	A	G	Q	L	G	L	fvt1

FIG. 2C

167	I	H	F	-	-	-	-	-	-	-	-	-	-	-	-		
147	F	D	F	-	-	-	-	-	-	-	-	-	-	-	-		
181	F	G	F	T	A	Y	S	A	S	K	F	A	I	R	G	L	A
182	L	-	-	A	Y	C	H	S	K	L	A	N	I	L	F	T	Q
163	V	-	-	A	Y	G	Q	S	K	A	A	D	V	L	F	T	V
211	I	T	V	A	Y	P	P	D	T	D	T	P	G	F	A	E	E
208	T	T	Y	S	V	H	P	G	T	V	Q	S	E	L	V	R	H
188	T	V	N	A	L	N	P	G	Y	I	L	T	R	L	Q	R	H
241	T	T	S	V	C	K	P	E	Q	V	A	K	Q	I	V	K	D
236	S	F	-	-	-	-	-	-	-	-	-	-	-	-	F	I	K
214	G	V	M	D	D	Q	G	N	V	-	K	P	L	P	Y	Y	K
265	S	S	L	G	S	D	G	Y	M	L	S	A	L	T	C	G	M
254	L	T	E	G	L	E	I	L	S	G	N	H	F	S	D	C	H
243	A	S	P	L	L	K	G	V	T	G	R	Y	F	E	D	N	Q
295	V	T	M	G	L	F	R	T	I	A	L	F	Y	L	G	S	F
274	-	V	S	A	Q	A	R	N	E	T	I	A	R	R	L	W	D
273	G	V	A	A	H	A	L	D	P	E	A	A	D	R	L	W	E
325	S	E	N	A	D	-	-	-	-	-	-	-	-	-	-	-	-

FIG. 2D

H	N	L	Q	-	G	E	K	F	Y	N	A	G	PSR
E	D	A	H	F	A	R	R	P	Y	D	P	W	Oxidoreductase
E	A	L	Q	M	E	V	K	P	Y	N	V	Y	fvt1

E	L	A	R	R	L	K	G	S	G	V	-	-	PSR
G	-	A	R	R	W	A	A	D	G	I	-	-	Oxidoreductase
N	R	T	K	P	L	E	T	R	L	I	S	E	fvt1

-	-	S	S	F	M	R	W	M	W	W	L	F	PSR
V	D	D	E	T	M	R	-	-	-	-	A	F	Oxidoreductase
A	I	Q	G	N	F	N	-	-	-	-	-	-	fvt1

T	P	Q	Q	G	A	Q	T	R	L	H	C	A	PSR
T	P	E	Q	G	A	A	T	S	V	L	L	A	Oxidoreductase
A	P	V	T	S	I	T	E	G	L	Q	Q	V	fvt1

V	A	W	-	-	-	-	-	-	-	-	-	-	PSR
E	A	R	T	V	Q	G	Q	E	D	Q	P	G	Oxidoreductase
D	S	I	V	R	R	C	M	M	Q	R	E	K	fvt1

V	I	V	T	C	W	A	S	Q					PSR
Y	G	T	D	A	L	-	R	A	A				Oxidoreductase
-	-	-	-	-	-	-	K	T	A				fvt1